

WHAT IS CLAIMED IS:

1 1. A method for compiling program files comprising:
2 optimizing the program files into object files, wherein the object files are comprised
3 of information indicating optimization;
4 maintaining cross modular functional relationship between object files;
5 extracting the information indicating optimization; and
6 linking the object files to create an executable output file.

1 2. The method for compiling program files of claim 1 further comprising:
2 creating intermediate representation files prior to optimizing the program files.

1 3. The method for compiling program files of claim 2 wherein information is
2 extracted regarding the intermediate representation files.

1 4. The method for compiling program files of claim 1 wherein the object files are
2 further comprised of:
3 information related to code generators.

1 5. The method of claim 4 of compiling program files further comprising:
2 extracting the information related to code generators.

1 6. A framework for compiling program files comprising:
2 an optimizer for optimizing program files into object files, wherein the object files are
3 comprised of information indicating optimization; wherein the optimizer
4 further extracts the information indicating optimization; and
5 a linker linking the object files to create an executable output file.

1 7. The framework for compiling program files of claim 6 wherein:
2 the optimizer creates intermediate representation files..

1 8. The framework for compiling program files of claim 7 wherein the optimizer
2 extracts information regarding the intermediate representation files.

1 9. The framework for compiling program files of claim 6 wherein:
2 the object files are further comprised of:
3 information related to code generators.

1 10. The framework for compiling program files of claim 9 wherein:
2 the optimizer extracts the information related to code generators.

1 11. A computer system comprising:
2 a processor;
3 a computer readable medium coupled to the processor; and
4 computer code, encoded in the computer readable medium, configured to cause the
5 processor to compile program files comprising of:
6 optimizing the program files into object files, wherein the object files
7 are comprised of information indicating optimization;
8 maintaining cross modular functional relationship between object files;
9 extracting the information indicating optimization; and
10 linking the object files to create an executable output file.

1 12. The computer system of claim 11 wherein the processor is further configured
2 to comprise of:
3 creating intermediate representation files prior to optimizing the program files.

1 13 The computer system of claim 12 wherein information is extracted regarding
2 the intermediate representation files.

1 14. The computer system of claim 11 wherein the object files are further
2 comprised of:
3 information related to code generators.

1 15. The computer system of claim 14 wherein the processor is further configured
2 to comprise of:
3 extracting the information related to code generators.

1 16. An apparatus for compiling program files comprising:
2 means for optimizing the program files into object files, wherein the object files are
3 comprised of information indicating optimization;
4 means for maintaining cross modular functional relationship between object files;
5 means for extracting the information indicating optimization; and
6 means for linking the object files to create an executable output file.

1 17. The apparatus for compiling program files of claim 16 further comprising:
2 means for creating intermediate representation files prior to optimizing the program
3 files.

1 18. The apparatus for compiling program files of claim 17 wherein information is
2 extracted regarding the intermediate representation files.

1 19. The apparatus for compiling program files of claim 16 wherein the object files
2 are further comprised of:
3 information related to code generators.

1 20. The method of claim 19 of compiling program files further comprising:
2 extracting the information related to code generators.

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1 21. A computer program product, encoded in computer readable media,
2 comprising:
3 a first set of instructions, executable on a computer system, configured to optimize
4 program files into object files, wherein the object files are comprised of
5 information indicating optimization;
6 a second set of instructions, executable on the computer system, configured to
7 maintaining cross modular functional relationship between object files;
8 a third set of instructions, executable on the computer system, configured to extract
9 the information indicating optimization; and
10 a fourth set of instructions, executable on the computer system, configured to link the
11 object files to create an executable output file.

1 22. The computer program product of claim 21 further comprising:
2 a sixth set of instructions, executable on a computer system, configured to create
3 intermediate representation files prior to optimizing the program files.

1 23. The computer program product of claim 2 wherein information is extracted
2 regarding the intermediate representation files.

1 24. The computer program product of claim 21 wherein the object files are further
2 comprised of:
3 information related to code generators.

1 25. The computer program product of claim 24 further comprising
2 a sixth set of instructions, executable on a computer system, configured to extract the
3 information related to code generators.